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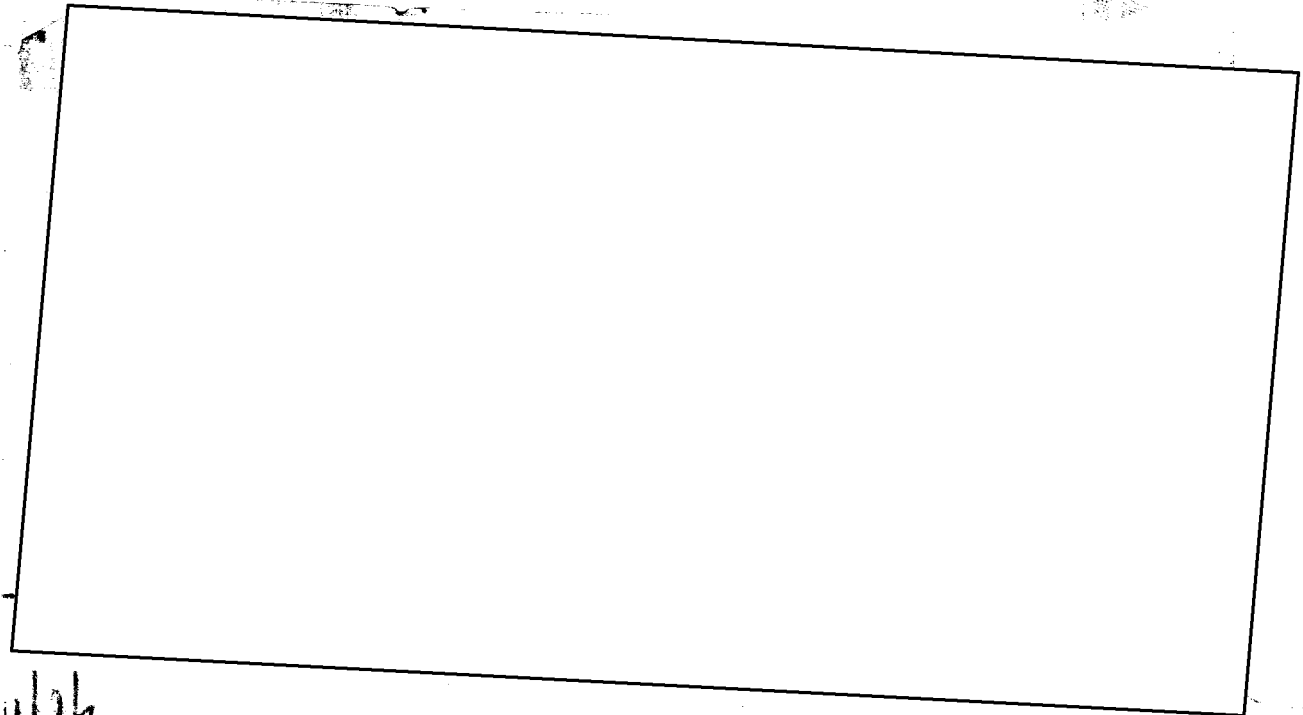
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Developments in Peak Voltage Engineering in East Germany.

Introduction

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[redacted] concerning direct-current high tension installations for 1,500,000 and 3,000,000 volts.

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2.

Development work in the 400-kv field is confined to installations for export to the U.S.S.R. and, possibly, to other countries. Owing to their dimensions and weight, 400-kv installations cannot be shipped fully assembled and ready for use. [redacted]

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for the construction of units which can be transported by rail or for the construction of transportable components which can be easily assembled.

[redacted] preliminary tests for the construction of a 400-kv transformer were conducted at the TRO factory. However, since great difficulties are being encountered in the construction of 200-kv types, it is not believed that the construction of usable 400-kv types will be completed in the near future. [redacted]

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3. It is possible that, in addition to the circuit breakers [redacted] the Soviets may have at their disposal ASEA equipment from Sweden and equipment from French and Belgian firms which exported 400-kv equipment before World War II. Overhead-line fittings for 400-kv were developed by the I.W. Hofmann firm, Koetschenbroda near Dresden.

4. The direct-current high tension installations [redacted] were designed by the former Sowjetisches Kontroll-Technisches Bureau (SKTB) (Soviet Technical Control Office) in 1945 and 1946. Only one model of the 3-megavolt installation was built and shipped to the U.S.S.R.. The VEM Transformer and X-Ray Plant in Dresden, which manufactured this model, expected more orders for both types of installations. Their delivery will be possible after the new high-tension test field at Dresden is completed. [redacted]

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[redacted] 15 transformers of "Standard Type 750 kv/ 750 kva" were built in the plant between 1945 and 1952. These transformers were developed by the SKTB 21 in 1945. They were used for building cascade installations. One of these installations was delivered to the high-tension test field of the Hescho-Kahla firm, and a picture of this installation appears on the 1952 pocket calendar distributed by this firm. Another, two-stage cascade installation was supplied to the high-tension institute of the Technical Academy, Dresden, which is headed by Professor Binder (fnu). The remaining transformers were shipped to the U.S.S.R.. The VEM Transformer and X-Ray plant hoped to obtain permission to export transformers of this type to other countries.

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the complete 3,000,000 v direct-current high-tension installation which was delivered on reparations account.

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